

Chapter 13

Project Risk Analyses





Project Risk Management

1.	Slide 1: Cement Seminar 2000	304
2.	Slide 2: Project Risk Management	305
3.	Slide 3: Business Risk Management	306
4.	Slide 4: Business Risk Management	307
5.	Slide 5: Case	308
6.	Slide 6: Case	309
7.	Slide 7: Risk Model for CAPEX Projects	310
8.	Slide 8: Risk Models - Definition of Risks	311
9.	Slide 9: Risk Models - Definitions of RIsks	312
10.	Slide 10: Project Categories and RIsk Models	313
11.	Slide 11: Risk Model for CAPEX Projects	314
12.	Slide 12: Why Risk Management in Projects	315
13.	Slide 13: Why RIsk Management in Projects	316
14.	Slide 14: Why RIsk management in Projects	317
15.	Slide 15: Why Risk Managementin Projects	318
16.	Slide 16: Why Risk Management in Projects	319
17.	Slide 17: BRMP for Small Projects	320
18.	Slide 18: BRMP for Small Projects	321
19.	Slide 19: BRMP for Small Projects	322
20.	Slide 20: BRMP for Small Projects	323
21.	Slide 21: BRMP for Medium and Big Projects	324
22.	Slide 22: Medium and Big Projects	325
23.	Slide 23: Project Risk Map	326
24	Slide 24: Rick Driver Mind-Man	327



1. SLIDE 1: CEMENT SEMINAR 2000

Cement Seminar 2000

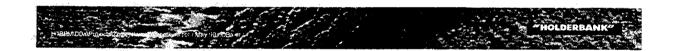
Project Risk Management

D. Bach

Business Risk Management

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2. SLIDE 2: PROJECT RISK MANAGEMENT

Project Risk Management

Objectives:

- Be aware of the variety of risks in CAPEX projects
- Take home the understanding of how to do risk management for small CAPEX projects



3. SLIDE 3: BUSINESS RISK MANAGEMENT

Business Risk Management "Holderbank" Vision

Business Risk Management is a continuous process, and can element of Corporate Governance it promotes efficient and effective assessment of risk increases risk awareness and a improves, the management to risk throughout the Group. This includes antiquating and avoiding threats and losses as well as identifying and realising opportunities.

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4. SLIDE 4: BUSINESS RISK MANAGEMENT

Business Risk Management at "Holderbank"

Target Areas:

⇒ Group Companies:

- Cement

- Aggregates

- Concrete

- Waste

-

- ⇒Financial Holdings
- ⇒HMC
- ⇒ "Holderbank" Group
- ⇒ Projects (incl. CAPEX Projects)





5. SLIDE 5: CASE



Kiln Shell Replacement in a Lime Plant

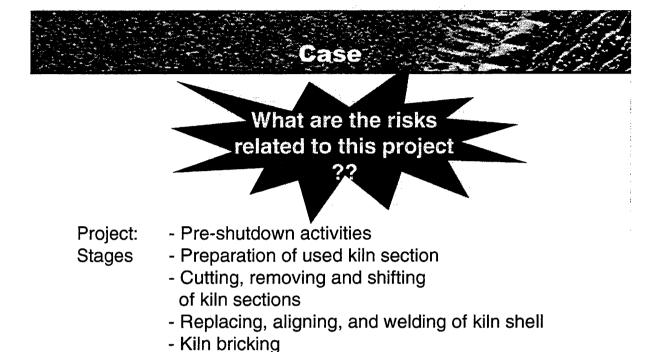
Scope: To remove two approximate three meter lengths of kiln shell and replace with one six meter length of second hand kiln shell on site, and realign the kiln to remove the "wobble" at the front of the kiln.

- The project shall be executed during an extended kiln shut-down.
- Clients shall not be affected by this project in a manner unacceptable to them.





6. SLIDE 6: CASE



- Recommissioning, kiln light-up

7. SLIDE 7: RISK MODEL FOR CAPEX PROJECTS

Risk Model for CAPEX Proje (comprehensive, Draft

External Context 1.

1.1	Industry/Market
1.1.1	Competitors Actions
1.1.2	Economic Influences

- 1.1.3 Currency Risk 1.1.4 Interest Rate Risk
- 1.2 External Stakeholders
 1.2.1 Shareholder Relations
- 1.2.2 Governmental/Public Influences 1.2.3 Reputation
- Laws/Regulations 1.3 Compliance Permitting Future Regulations

Insurance

3.3.1 Financing 3.3.2 Insurance

Internal Context and Project Concept

- Strategic Planning 2.2
- Integration of Project in Company Plans
- Market Contracts Related to Operation of New Facilities

3.1 Organization

- Project Parties

- 3.1.1 Project Parties
 3.1.2 Contracting Approach
 3.1.3 Project Organization
 3.1.4 Co-ordination with
 Production/Sales
 3.1.5 Project Risk Management

- Technology, Operation
 Resources Availability
 Process & Product Quality
 Operational Concept
 Plant Design and
 Mech./El./Civ. Engineering
 Logistics (outbound)
 Infrastructure
 Outsourcing
 Environmental

Human Resources 2.4 Project Economics Personnel Skills and Management

2.4.1 Investment Cost 2.4.2 Operating Cost

3. **Project Realization**

Performance of Project 3.3 Financing and Management Function

- 3.2.1 Procurement Contracts for Project
- Contracts for Project
 Realization
 Time and Cost
 Quality of Plant and Equipment
 Commissioning
 Health & Safety

3.4 Performance of Contractors

- Contractors
 3.4.1 Mechanical Supplies and Erection
 3.4.2 Electrical Supplies and Installation
 3.4.3 Civil Construction (concrete, structural steel)
 3.4.4 Other Contracts

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SLIDE 8: RISK MODELS - DEFINITION OF RISKS 8.

Risk Models: Definition of Risks 1 **External Context** Industry / Market Competitor Actions: Economic Influences: 1.1 The risk that project success can be prevented by competitors. The risk of significant changes in the size of the (potential) market for the project's product. The risk of project related exposure to fluctuations in the exchange rate. Currency Risk: Interest Rate Risk: The risk of project related exposure to interest rate fluctuations. External Stakeholders Shareholder Relations: Governmental/ Public Infi.: The risk that shareholders disagree with or block the project. The risk that views or behaviors by the government / public authorities or the public, or any other organization will create barriers to the project. project. The risk that the project does damage to the respect in which the company is held by its internal and external stakeholders resulting in loss of sales, fines & penalties, reduced government cooperation, lost business opportunities and lower share price. 1.2.3 Laws / Regulations Compliance: Permitting: The risk that the project is not in compliance with existing laws and regulations or that compliance would imply significant additional cost. The risk that missing permits inhibit construction, commissioning or operation, or that conditions attached to permits make the project unfeasible, or that permits issued are revoked. The risk that changes in regulations by international, national and local regulators significantly affect the project.

Future Regulations:

2.	Project Assumptions	s and Concept
2.1	Strategic Planning	
2.1.1	Integration of Project in	The risk that the pro
	Company Plans:	and Business Plan.
2.1.2	Market:	The risk that market
		the ricks "Canacity"

Strategic Planning
Integration of Project In
Company Plans:
Market:
The risk that the project does not efficiently and effectively contribute to achieving company targets because it is not integrated in strategy and Business Plan.
The risk that market assumptions prove wrong or that marketing strategy fails to succeed. (This risk includes the risks 'Capacity'. 'Service/Product Quality', and 'Salling/Pricing' from the generic business risk model for cement)

Contracts related to Operation of new Facilities (contracts other than supply and service contracts for project implementation: e.g. JV agreements etc.):
The risk that contracts are not in compliance with legislation, with other obligations of the company, the real purpose of the management, and do not reflect the intention of the parties.

Technology Resources Availability: Process & Product Quality: 2.2.3 Operational Concept:

2,2.5 Logistics: 2.2.6

infrastructure:

The risk that resources are not available at required quality and economic cost.

The risk that process selected (flowsheet) is not fit for its purpose, not cost efficient with regard to investment and operation, not delivering product quality required, not suitable for the local environment, or does not exploit potential syntergies with other company internal or external facilities and operation.

The risk that the operational concept is not cost efficient with regard to investment and operation, not suitable for the local environment, or does not exploit optential syntergies with other company internal or external facilities and operations.

The risk that plant design and mech./el./civil engineering is not fit for its purpose, not cost efficient with regard to investment and operation, not suitable for the local environment, or does not exploit optential syntergies with other company internal or external facilities and operations.

The risk that material flows to the new facilities and between the new facilities and other facilities and to the customers are not planned in a cost efficient and reliable manner.

The risk that infrastructure outside company's facilities does not fulfill operational requirements.

Plant Design, Mech./El./Clvli Engineering:

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9. SLIDE 9: RISK MODELS - DEFINITIONS OF RISKS

Risk Models: Definition of Risks (Draf 227

The risk that foreseen split between in-house and outsourced resources is not optimum or that this split is difficult to correct later on. The risk that the project does not comply with the company's own stated environmental policy and / or with public expectations.

2.2.8 2.3 **Human Resources**

231 el Skills and Management: The risk that new facilities will not be operated successfully due to HR reasons.

Economic Analysis The risk that investment cost exceed estimates and budgets resp.

Investment Cost: Operating Cost: The risk that operating cost exceed estimates.

3. **Project Realization**

Organization Project Parties:

The risk that parties involved in a project (company, contractors, consultants, authorities, financial institutions etc.) are not able to carry

Out the responsibilities assigned to them or taken over by them.

Contracting Approach:

The risk that the contracting approach does not adequately consider project environment, project characteristics and the requirements and capabilities of the company.

Project Organization:

The risk that overall project organization as well as project organizations of parties involved in the project are not adequate to carry out the responsibilities assigned to them.

Co-ordination with Production/Sales: The risk that project execution seriously affects the company's medium-/long-term position in the market.

The risk that (key) risks materialize due to missing or ineffective Project Risk Management procedures. 3.1.2 Contracting Approach:

3.1.3 Project Organization:

3.1.5 Project Risk Management
Performance of Project
3.2.7 Procurement:

3.2.8 Contracts related to Equipment Supplies and Construction:

3.2.9 Time and Cost:

3.2.1 Quality of Plant and Equip.
3.2.2 Commissioning:

3.2.4 Quality of Plant and Equip.
3.2.5 Commissioning:

3.2.6 Health & Safety:

3.2.7 The risk that supplies and construction of up to rest in six that ime schedules and cost estimates are not maintained due to missing or ineffective control functions, deficiencies in contracts or "scope creep" during project execution, or due to external influences such as natural disasters, strikes etc.

The risk that supply and service contracts suffer major legal, commercial or other deficiencies.

The risk that time schedules and cost estimates are not maintained due to missing or ineffective control functions, deficiencies in contracts or "scope creep" during project execution, or due to external influences such as natural disasters, strikes etc.

The risk that target quality levels are not achieved due to insuff, contractual specification and inadequate control in workshops and on site.

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The risk that target quality levels are not achieved due to missioning period foreseen.

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The risk that target quality levels are not achieved due to missing or ineffective control in workshops and on site.

The risk that target quality levels are not achieved due to insuff, contractual specification and inadequate control in workshops and on site.

Financing and Insurance

The risk that the project cannot be financed at feasible conditions, that the set-up of the financing is delaying the project execution, or that that restrictive conditions (e.g. contractors selection) are imposed.

The risk that project implementation is not adequately protected by insurances.

Performance of Contractors 3.4

Mechanical Supplies & Erection: Electrical Supplies & Installation: Civil Construction (concrete, structural steel):

Identical definition for all "Performance of Contractors" Risks:
The risk that contractors do not perform in accordance with their contracts and thereby jeopardize project success (time, quality, cost).

Other Contracts:



SLIDE 10: PROJECT CATEGORIES AND RISK MODELS 10.

Project Categories and Rist

"BIG"

- > 15 mio. USD
- Heavily affecting long-term perspective of company
- Potentially all risks

- "MEDIUM" < 15 mio. USD
 - Strategic
 - Scenarios; co-ordination with Business Plan = iterative process
 - Risks of company internal context and technical concept relevant

"SMALL" < 0.5 mio. USD

- No or little freedom regarding technical solution
- Typically major repair and replacement works
- Mainly risks of project execution

Risk Model for small projects



11. SLIDE 11: RISK MODEL FOR CAPEX PROJECTS

Risk Model for CAPEX Projects (small projects, <u>Draft</u>)

(derived from comprehensive model for big projects)

- 1.3.1 Compliance
- 1.3.2 Permitting
- 3.1 Organization
- 3.1.1 Project Parties
- 3.1.2 Project Organization
- 3.1.3 Coordination with Production/Sales

3.2 Performance of Project Management Function

- 3.2.1 Contracts for Project Realization
- 3.2.2 Time and Cost
- 3.2.3 Quality of Plant and Equipment
- 3.2.4 Commissioning
- 3.2.5 Health & Safety

3.4 Performance of Contractors

- 3.4.1 Mechanical Supplies and Erection
- 3.4.2 Electrical Supplies and Installation

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12. SLIDE 12: WHY RISK MANAGEMENT IN PROJECTS

Why Risk Management in Projects?

Murphy's Law:

Anything that can go wrong will go wrong.





13. SLIDE 13: WHY RISK MANAGEMENT IN PROJECTS

Why Risk Management in Projects?

Why does Murphy's Law <u>not always</u> prove right in projects?



Project Management

Good project management considers risks and takes measures to control and manage these risks.





14. SLIDE 14: WHY RISK MANAGEMENT IN PROJECTS

Why Risk Management in Projects?

Why does Murphy's Law <u>often</u> prove right in projects?

- No risk awareness
- Work overload of people
- Project teams not familiar with (standard) project procedures
- Project scope and objectives unclear
- Inadequate project organization

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15. SLIDE 15: WHY RISK MANAGEMENTIN PROJECTS

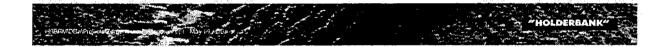
Why Risk Management in Projects?

The answer:

Business Risk Management for Projects (BRMP)

BRMP for Project Management

- ~ Safety rope for mountain climbing
- ~ Safety net for high-wire walk





16. SLIDE 16: WHY RISK MANAGEMENT IN PROJECTS

Why Risk Management in Projects?

What is BRMP?

- Standard process plus checklists
- Objectives:
 - Risk awareness, anticipation of problems of all kind
 - Alignment of views on risk profile and actions to be taken to manage risks
 - Comprehensive and systematic coping with project risks





17. SLIDE 17: BRMP FOR SMALL PROJECTS

BRMP for Small Projects Case

- Workshop before project execution (+ follow-up by Project Manager)
- Participants: Maintenance Co-ordinator (Project Manager)
 - Production Technical Manager
 - Purchasing/Stores Co-ordinator
 - Production Co-ordinator
 - Quality & Safety Advisor
 - Process Chemist
 - Site Manager
 - Company Risk Management Co-ordinator

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18. SLIDE 18: BRMP FOR SMALL PROJECTS

BRMP for Small Projects Case

• Steps of Workshop:

- Agreement on project scope and objectives
- Risk Identification
- Analysis of origin of risks (risk drivers)
- Assessment of significance and likelihood
- Assessment of risk treatment (existing / additional)
- Definition of responsibilities and target dates

• Deliverables of Workshop:

Risk assessment + action list(= minutes of workshop)





19. SLIDE 19: BRMP FOR SMALL PROJECTS

BRMP for Small Projects Forms and Checklists

Checklist BRMP Workshop

- Preparatory Activities
- Agenda of Workshop
- Follow-up

Checklist Generic Risks and Risk Drivers

- Risk Definitions
- Generic Risk Drivers

Checklist Participants to Workshop

- Mandatory
- Project Specific

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20. SLIDE 20: BRMP FOR SMALL PROJECTS

BRMP for Small Projects Forms and Checklists

Form A - Risk Identification

- Parts of Project
- Generic Risks

Form B - Risk Evaluation and Management

- Existing Risk Treatment
- Risk Relevance
- Proposed Risk Treatment
- Responsible Person
- Target Date





21. SLIDE 21: BRMP FOR MEDIUM AND BIG PROJECTS

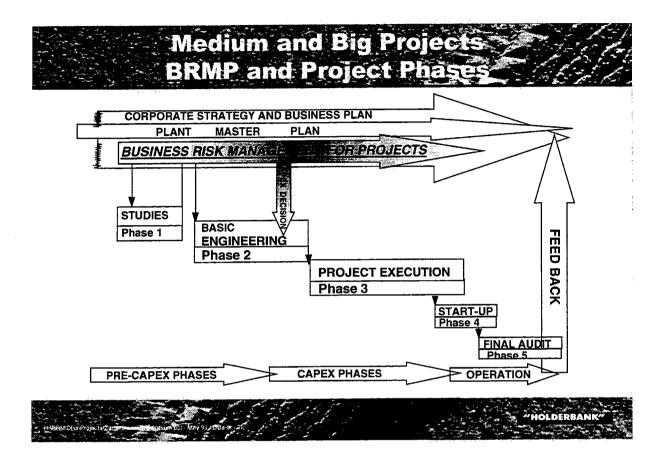
BRMP for Medium and Big Projects

- · Basically the same
- Risk profile to be considered in: Project concept
 Project management
 - More sophistication in:
 - Risk analysis (→ Risk Maps, Risk Driver Mind-Maps)
 - Quantification (significance in \$)
- Repeated workshops
- Project progress reports to include reporting on risks
- (Tailor-made solutions)



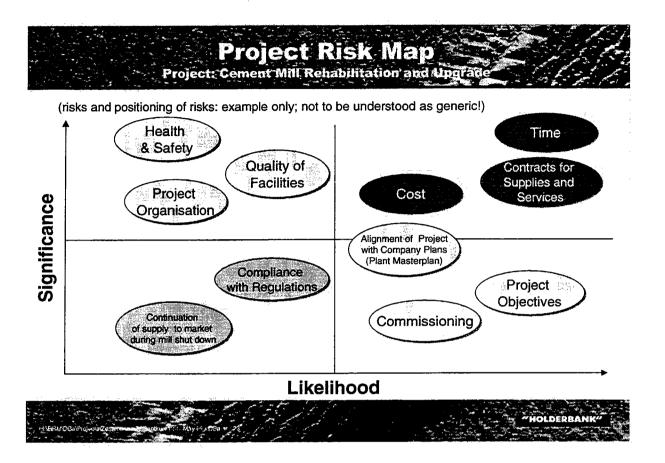


22. SLIDE 22: MEDIUM AND BIG PROJECTS



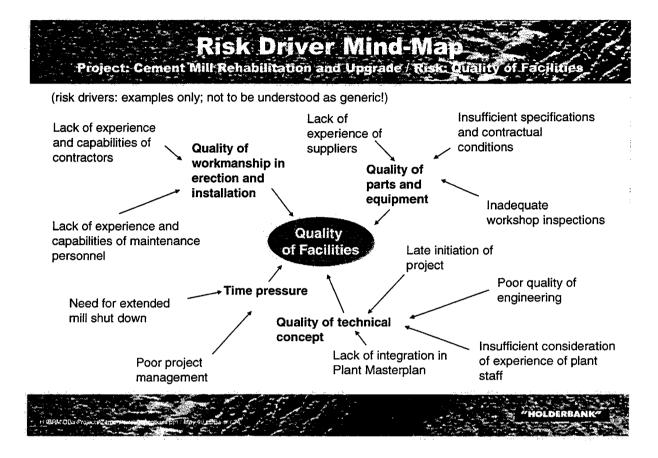


23. SLIDE 23: PROJECT RISK MAP





24. SLIDE 24: RISK DRIVER MIND-MAP





Business Risk Management for Projects (BRMP)

Checklists and Forms for Small Projects

May 1999
Business Risk Management
'Holderbank' Engineering Switzerland

BUSINESS RISK MANAGEMENT FOR PROJECTS (BRMP) FOR SMALL RPOJECTS

Project: *Kiln Shell Replacement* Risk Identification *(examples only)*

Form A1

Generic Risks > Parts of Scope/ Project Stages Y Pre-shutdown activities	Project Parties	Project Organisation	Co-ordination with Production/ Sales 2) Lime stockpile may be too low at the commencement of the shutdown. 4) The shutdown plan	Compliance	Permitting	Contracts for Project Realisation 9) The composition of the existing kiln material is not known and this will impact on the
Preparation of used kiln section			be inadequate.			welding material to be used.
Cutting, removing and shifting of kiln sections				12) Noise may be generated during shutdown activities.		
Replacing, aligning,and welding of kiin shell				 11) Significant welding will be required and this may pose a hazard or health risk to personnel. 12) Noise may be generated during 		
Kiin bricking				shutdown activities.		
Recommissioning, kiln lightup	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					

Form A2

Project: *Kiln Shell Replacement* Risk Identification (examples only)

BUSINESS RISK MANAGEMENT FOR PROJECTS (BRMP) FOR SMALL PROJECTS

Generic Risks Y	Time	Cost	Quality	Commissioning	Health and	Performance of
Parts of Scope/ Project Stages					Safety	Contractors
Pre-shutdown activities						
Preparation of used kiln section					5) No formal safety plan by the contractor and no formal transfer of risk	
Cutting, removing and shifting of kiln sections	1) The contractor's equipment may not arrive in suitable time.				 5) No formal safety plan by the contractor and no formal transfer of risk. 6) Some of the work, e.g. debricking, may require work in a confined space. 11)Significant welding will be required and this may pose a hazard or health risk to personnel. 	7) The moving piece of the kiln may fall and be damaged.

BUSINESS RISK MANAGEMENT FOR PROJECTS (BRMP) FOR SMALL PROJECTS

Project: Kiln Shell Replacement

Form A2

Risk Identificati	Risk Identification <i>(examples only)</i>	(1)				
Generic Risks > Parts of Scope/ Project Stages	Time	Cost	Quality	Commissioning	Health and Safety	Performance of Contractors
Replacing, aligning,and welding of kiln shell	1) The contractor's equipment may not arrive in suitable time.		8) The kiln may not be cleaned prior to welding leading to problems with the weld. 9) The composition of the existing kiln material is not known and this will impact on the welding material to be used. 10) Incorrect alignment of the kiln may occur leading to ongoing operational problems.		5) No formal safety plan by the contractor and no formal transfer of risk.	7) The moving piece of the kiln may fall and be damaged. 10)Incorrect alignment of the kiln may occur leading to ongoing operational problems.
Kiln bricking	Late delivery or non-delivery of refractory material.					

Recommissioning, kiln lightup Form B

Project: *Kiln Shell Replacement* Risk Evaluation and Management (examples only)

Part of Scope / Project Stage: Pre-shutdown Activities

Risk and	Existing Risk Treatment		Risk	Proposed Risk Treatment	Respons	Tor.
Risk Description	•	Relevance*	ance*		Person	de
			Likełi-			g~. Date
		cance L.M.H	L.M.H			
1) The contractor's equipment				Confirm that the equipment has been shinned		
may not arrive in suitable		Σ	Σ	and will arrive at site prior to the scheduled		
time.				shutdown commencement time.	,	
2) Lime stockpile may be too	Current kiln output is considered to be			Identify and agree an alternative supply and		
low at the commencement of the shutdown.	sufficient to meet this target stockpile by the commencement of the shutdown.	Σ	I	develop a supply agreement.		
				Continue customer surveys.		
	A customer survey has been undertaken to					
	gauge expected customer demands during the shirtdown period		-	Ensure that customer silos are filled.		
				Ensure that ISO containers are available and loaded prior to the shutdown. Consult with		
				specialist in this regard.	•	
				Develop and implement a silo management		
				strategy to ensure that off-specification material		
				in silos at the time of the shutdown is minimized.		
				Schedule production to maximize lime		
2) Loto dolivou or non	Length of the state of the stat			stockpiles at the start of the shutdown.		
delivery of refractory	refractory has been shipped and is currently	Σ		Do not start the shutdown unless sufficient refractory is available		
material.	on route and delivery details confirmed.		l			
	Local manufacturer representative has been					
	asked to confirm delivery date.					
THE VIOLE CHARTCHAIN CHARTCHAIN						

* CONSIDERING EXISTING RISK TREATMENT!

BUSINESS RISK MANAGEMENT FOR PROJECTS (BRMP) FOR SMALL PROJECTS

Form B

Project: Kiln Shell Replacement Risk Evaluation and Management (examples only)

Risk and	Existing Risk Treatment	Risk	Y	Proposed Risk Treatment	Baenone	Tar
Risk Description		Relevance*	ance* Likeli-		Person	get Date
		cance L,M,H	hood L,M,H			
The shutdown plan and schedule may be	An experienced contractor who has undertaken other kiln shell replacements	W		Ongoing review of the shutdown plan and schedule.		
inadequate.	elsewhere in the vicinity has been engaged. This contractor has contributed to the		1			
	development of the plan. Owner also has experience with this contractor.					
No formal safety plan by the contractor and no	The contractor employs experienced crews and has safely undertaken similar jobs in the	Σ	_	Discuss the option of development of a safety plan and work method statements for key work		
formal transfer or risk.	past.		l	practices with the contractor.		
		•		Follow through insurance and workers'		
				compensation situation for the contractor who is		
				a foreigner. Investigate owner's exposure to a major claim if an incident should occur.		
6) Some of the work, e.g.	Site confined space procedure. Site lockout			Confirm whether the kiln interior will be required.		
debricking, may require work in a confined space.	procedure.	Σ		Develop a specific procedure for kiln entry during the shutdown.		
7) The moving piece of the	The strategy for moving the kiln piece has		2	Check if crane support will be used throughout		
damaged.	suitable for movement without failure.		<u> </u>	trie process. If not, obtain further information from contractor on how the moving piece will be supported.		
8) The kiln may not be		:	•	Ensure that clear instructions are given during		
cleared prior to welding leading to problems with the weld		Σ		debricking to ensure kiln is clean enough prior to welding.		
nie weer.						

BUSINESS RISK MANAGEMENT FOR PROJECTS (BRMP) FOR SMALL PROJECTS

Form B

Project: Kiln Shell Replacement Risk Evaluation and Management (examples only)

Risk and	Existing Risk Treatment	Risk	¥	Pronosed Risk Treatment	Boenone	Tor
Risk Description	•	Relevance*	nce*		Person	get
		Signifi- cance L,M,H	Likell- hood L,M,H			Date
9) The composition of the existing kiln material is not known and this will impact on the welding material to be used.	All likely materials required to be used in welding are known to be available.	Σ	-1	Undertake sampling and analysis as soon as possible once the kiln material is available for sampling.		
10)Incorrect alignment of the kiln may occur leading to ongoing operational	The contractor is expert in undertaking kiln shell replacements.	I		No additional risk treatments are recommended.		
problems.	Owner's personnel will confirm alignment prior to commencement of welding (included in work schedule).					
11)Significant welding will be required and this may pose a hazard or health risk to	Contractor expertise and existing welding procedures.	ب	_	Ensure that contractors are briefed regarding owner's requirements in relation to welding.		
personnel.		•		Ensure that ID fan is used to ventilate the interior of the kiln.		
12)Noise ma y be generated during shutdown activities.	There is a restriction of night time operations at site.			No additional risk treatments are recommended.		
	Owner's personnel is well aware of noise issues and takes control action to reduce noise.					
	A complaint procedure is in place for dealing with environmental complaints, e.g. noise complaint.					

BUSINESS RISK MANAGEMENT FOR PROJECTS (BRMP) FOR SMALL RPOJECTS

Project: Risk Identification

Form A1

Contracts for Project Realisation			
Permitting			
Compliance	-		
Co-ordination with Production/ Sales			
Project Organisation			
Project Parties			
Generic Risks ≽ Parts of Scope/ Project Stages			

BUSINESS RISK MANAGEMENT FOR PROJECTS (BRMP) FOR SMALL PROJECTS

Project: Risk Identification

Form A2

Performance of Contractors			
Health and Safety			
Commissioning			
Quality			
Cost			
Time			
Generic Risks > 1 Parts of Scope/ Project Stages			

BUSINESS RISK MANAGEMENT FOR PROJECTS (BRMP) FOR SMALL PROJECTS

Project: Risk Evaluation and Management

Form B

Part of Scope / Project Stage:

Risk and Risk Description	Existing Risk Treatment	Risk Relevance*	Proposed Risk Treatment	Respons. Person	Tar- qet
		Signifi- Likeli- cance hood L,M,H L,M,H			Date
1)					
2)			·		
(g					
4)					
(9					

^{*} CONSIDERING EXISTING RISK TREATMENT! L, M, H = LOW, MEDIUIM, HIGH